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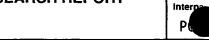
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/12 C07K14/705

C07K14/47

C07K16/18

C07K16/28

Relevant to claim No.

1-7

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

X

Minimum documentation searched (classification system followed by classification symbols) I PC $\,7\,$ C07 K $\,$ C12 N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

WO 98 21328 A (KATO SEISHI ; PROTEGENE INC

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X Furt	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.
"A" docume consider the consideration that consider the consideration that consideration the consideration that conside	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or means sent published prior to the international filing date but than the priority date claimed	"T" later document published after the int or priority date and not in conflict with cited to understand the principle or the invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an independent of the cannot be considered to involve an indecument is combined with one or ments, such combination being obvious the art. "&" document member of the same patern Date of mailing of the international set.	n the application but neory underlying the claimed invention of the considered to occurrent is taken alone claimed invention nventive step when the nore other such docupous to a person skilled at family
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European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

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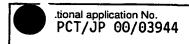
2.12	ATTACAMENTO CONCINEDED TO DE CELEVANT	P 00/03944
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Deleganted
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL [Online] EBI; ACC. NO.: AA062589, 25 September 1996 (1996-09-25) HILLIER ET AL.: "Generation and analysis of 280,000 human expressed sequence tags" XP002151123 the whole document	1-7
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(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	GILLEN C M ET AL: "Molecular cloning and functional expression of the K-Cl cotransporter from rabbit, rat, and human" JOURNAL OF BIOLOGICAL CHEMISTRY,US;AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, vol. 271, no. 27, 5 July 1996 (1996-07-05), pages 16237-16244, XP002119528 ISSN: 0021-9258 abstract; figures 3,4	1-7				
A	KYTE J ET AL: "A SIMPLE METHOD FOR DISPLAYING THE HYDROPATHIC CHARACTER OF A PROTEIN" JOURNAL OF MOLECULAR BIOLOGY, GB, LONDON, vol. 157, no. 1, 5 May 1982 (1982-05-05), pages 105-132, XP000609503 ISSN: 0022-2836 cited in the application page 129 -page 130; figures 1-8; tables 1-6	1-7				
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1





Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	ernational Searching Authority found multiple inventions in this international application, as follows:
	see additional sheet
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. X	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7 all partially
Remar	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-7 all partially

A protein comprising amino acid sequence according to SEQ ID NO 1, a DNA sequence of SEQ ID NO 11 or 21, encoding this protein, as well as an expression vector capable of expressing this sequence and a eukaryotic cell expressing the DNA, as well as an antibody direct against the above mentioned protein.

- 2. Claims: 1-7 all partially
 Identical to invention 1, but limited to SEQ ID NO:2.12.22
- 3. Claims: 1-7 all partially

 Identical to invention 1, but limited to SEQ ID NO:3.13.23
- 4. Claims: 1-7 all partially

 Identical to invention 1, but limited to SEO ID NO:4.14.24
- 5. Claims: 1-7 all partially

 Identical to invention 1, but limited to SEQ ID NO:5,15,25
- 6. Claims: 1-7 all partially

 Identical to invention 1, but limited to SEQ ID NO:6,16,26
- 7. Claims: 1-7 all partially

 Identical to invention 1, but limited to SEQ ID NO:7,17,27
- 8. Claims: 1-7 all partially

 Identical to invention 1, but limited to SEQ ID NO:8,18,28
- 9. Claims: 1-7 all partially
 Identical to invention 1, but limited to SEQ ID NO:9,19,29
- 10. Claims: 1-7 all partially

International Application No. PCT/JP 00/03944

FURTHER INFORM	FURTHER INFORMATION CONTINUED FROM PCT/ISA/, 210										
	Identical	to	invention	1,	but	limited	to	SEQ	ID	NO:10,20,30	

on patent family members

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